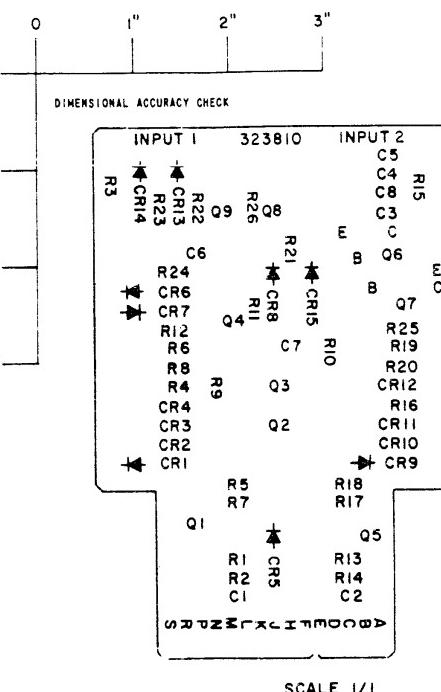
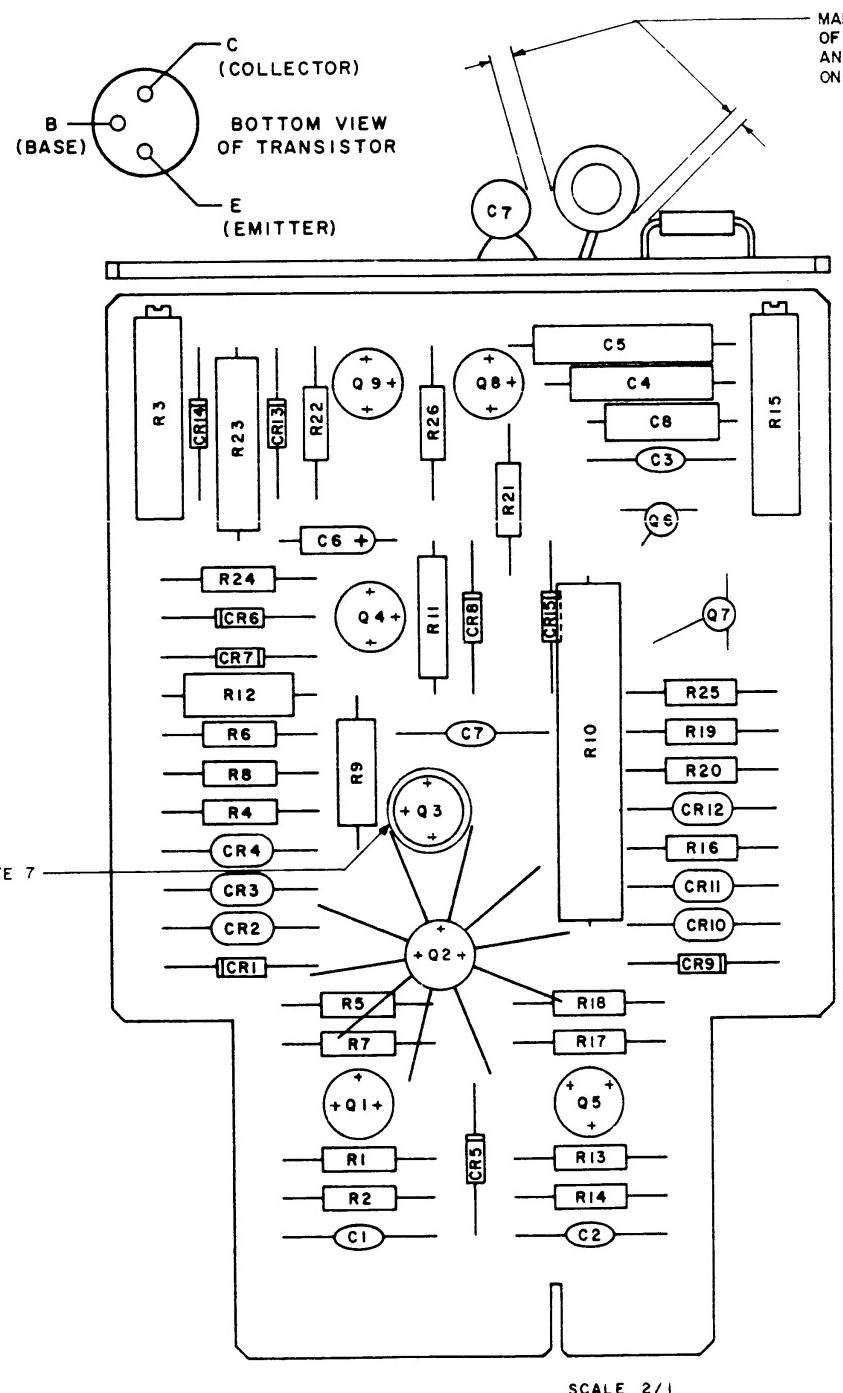


ASSEMBLY, CIRCUIT (SMD WITH SIGNAL COMBINER)



NOTE:

1. TRANSISTOR Q2 HAS 323847 HEAT SINK PRESSED ON.
2. USE 323846 TRANSISTOR PAD UNDER TRANSISTOR Q3.
3. REFERENCE SPECIFICATION FOR TELETYPE CORP. EMPLOYEES ONLY:
61-2645
4. REFER TO 8143WD FOR SCHEMATIC WIRING DIAGRAM
5. ALL CHARACTERS TO BE 1/25 HIGH AND PRINTED WITH WHITE ENAMEL.
6. ALL PRINTED CHARACTERS TO BE LOCATED + .031 FROM NOMINAL POSITION
7. Q3 HAS 30G16 INSULATING COVER.
POSITION Q3 (WITH COVER) SO THAT
323847 HEAT SINK MAY BE FULLY
SEATED ON Q2.
8. 144493 TRANSISTER PAD REQUIRED ON Q1, Q4, Q5, Q8 AND Q9, AND Q2.

REF. DESIGN.	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION	323810
C1	321157	1	CAPACITOR, 500 pF	R.F. BY-PASS CAP.	
C2	321157	1	CAPACITOR, 500 pF	R.F. BY-PASS CAP.	
C3	321157	1	CAPACITOR, 500 pF	R.F. BY-PASS CAP.	
C4	171829	1	CAPACITOR, .15 MF	Q8 FEEDBACK CAP.	
C5	326776	1	CAPACITOR, .47MF	Q9 FEEDBACK CAP.	
C6	321260	1	CAPACITOR, 1 MF 50V	TRANSIENT SUPP.	
C7	321157	1	CAPACITOR, 500 pF	R.F. BY-PASS CAP.	
C8	178860	1	CAPACITOR, .022 MF	R.F. BY-PASS CAP.	
R1	118720	1	RESISTOR, 100K, 1/2W	Q1 OPEN LINE BIAS	
R2	118720	1	RESISTOR, 100K, 1/2W	INPUT 1 RES.	1 2-23-67 18240-R
R3	323964	1	POTENTIOMETER 500K	Q1 BIAS	2 4-24-67 93730
R4	129854	1	RESISTOR, 10K, 1/2W	Q1 BIAS	3 10-16-67 94596-B
R5	118177	1	RESISTOR, 22K, 1/2W	Q1 LOAD RES.	4 11-21-67 94849-B
R6	137604	1	RESISTOR, 620, 1/2W	VOLTAGE DIVIDER	5 5-22-68 95850
R7	118146	1	RESISTOR, 4.7K, 1/2W	Q1 Emitter RES.	6 12-20-68 98266
R8	129850	1	RESISTOR, 680, 1/2W	VOLTAGE DIVIDER	7 1-29-69 98172
R9	309868	1	RESISTOR, 1.3K, 3W	CR8 CURRENT LIMITER	8 2-17-69 98267
R10	323841	1	RESISTOR, 300, 12W	Q2 LOAD RES.	
R11	323842	1	RESISTOR, 21, 1/2W, 15	REG. CURRENT SET	
R12	178864	1	RESISTOR, 3.9K, 1W	CR8 CURRENT LIMITER	
R13	118720	1	RESISTOR, 100K, 1/2W	Q5 OPENLINE BIAS	
R14	118720	1	RESISTOR, 100K, 1/2W	INPUT 2 RES.	
R15	323964	1	POTENTIOMETER 500K	Q5 BIAS	
R16	129854	1	RESISTOR, 10K, 1/2W	Q5 BIAS	
R17	118177	1	RESISTOR, 22K, 1/2W	Q5 LOAD RES.	
R18	118146	1	RESISTOR, 4.7K, 1/2W	Q5 Emitter RES.	
R19	137604	1	RESISTOR, 620, 1/2W	VOLTAGE DIVIDER	
R20	129850	1	RESISTOR, 680, 1/2W	VOLTAGE DIVIDER	
R21	321975	1	RESISTOR, 33, 1/2W	Q8 Emitter RES.	
R22	118177	1	RESISTOR, 22K, 1/2W	CR13 BIAS RES.	
R23	323843	1	RESISTOR, 590, 5W, 15	COIL CURRENT LIMITER	
R24	1377442	1	RESISTOR, 1.5K, 1/2W	C6 BLEEDER RES.	
R25	118154	1	RESISTOR 47K, 1/2W	Q6, Q7 LOAD RES.	
R26	120424	1	RESISTOR 4.3K, 1W	Q8 LOAD RES.	
CRI	321154	1	DIODE, IN457A	Q1 BASE PROT.	
CR2	178844	1	VARISTOR, 100-A	TEMP. COMP.	
CR3	178844	1	VARISTOR, 100-A	TEMP. COMP.	
CR4	178844	1	VARISTOR, 100-A	TEMP. COMP.	
CR5	181667	1	DIODE, IN750A	TEMP. COMP. REF.	
CR6	321156	1	DIODE, INN82A	Q4 COLLECTOR CLAMP	
CR7	321156	1	DIODE, INN82A	Q4 COLLECTOR CLAMP	
CR8	321161	1	DIODE, IN748A	REG. VOLT REF.	
CR9	321154	1	DIODE, IN457A	Q5 BASE PROT.	
CR10	178844	1	VARISTOR, 100-A	TEMP. COMP.	
CR11	178844	1	VARISTOR, 100-A	TEMP. COMP.	
CR12	178844	1	VARISTOR, 100-A	TEMP. COMP.	
CR13	321156	1	DIODE, IN482A	Q9 Emitter Diode	
CR14	321156	1	DIODE, IN457A	TRANSIENT SUPP.	
CR15	321156	1	DIODE, IN482A	Q8 Emitter Diode	
Q1	321166	1	TRANSISTOR, 2N1893	DC AMP.	
Q2	323844	1	TRANSISTOR, 2N3053	SHUNT REQ.	
Q3	321261	1	TRANSISTOR, 2N4036	SHUNT REG. AMP.	
Q4	323845	1	TRANSISTOR, 40319	SERIES REQ.	
Q5	321166	1	TRANSISTOR, 2N1893	DC AMP.	
Q6	324144	2	TRANSISTOR, 2N4121	DC AMP.	
Q7			SAME AS Q6		
Q8	321165	1	TRANSISTOR, 2N3638A	DC AMP.	
Q9	321261	1	TRANSISTOR, 2N4036	DC AMP.	
Q10	324147	2	PAD, TRANSISTOR		
Q11	144495	6	PAD, TRANSISTOR		
Q12	323846	1	PAD, TRANSISTOR		
Q13	323847	1	HEAT SINK		
Q14	323835	1	CIRCUIT BOARD, ETCHED		
Q15	30G116	1	COVER, INSULATING		

USED ON 323808

323810

REVISIONS

ISSUE	DATE	AUTH. NO.
1	2-23-67	18240-R
2	4-24-67	93730
3	10-16-67	94596-B
4	11-21-67	94849-B
5	5-22-68	95850
6	12-20-68	98266
7	1-29-69	98172
8	2-17-69	98267

D AND R

E OF M

HJK

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E-NUMBER

PROD. NO. 323810

DATE

2-1-67

P.D. FILE NO. 15-65AAA

DRAWN

J. J. A. BPP

ENGD.

APPD. JAB

TELETYPE CORPORATION

323810